

Entity Types:

1. **Borrower:** A person or organization that submits a loan request.

Attributes:

- Borrower ID (unique identifier)
- Name
- Contact information
- Employment information
- Income
- Credit score

2. **Loan Request:** A request for a loan submitted by a borrower.

Attributes:

- Request ID (unique identifier)
- Borrower ID (foreign key)
- Loan amount
- Purpose of the loan
- Collateral (if any)
- Request status (approved/denied/pending)

3. **Loan Approval:** The decision made by the AI-based system on whether to approve or deny a loan request.

Attributes:

- Approval ID (unique identifier)
- Request ID (foreign key)
- Approval date
- Approval status (approved/denied)

4. **Loan Distribution:** The process of distributing approved loans to borrowers.

Attributes:

- Distribution ID (unique identifier)
- Request ID (foreign key)
- Distribution date
- Amount distributed

5. **Loan Tracking:** The process of tracking loan activity and generating reports for the financial institution.

Attributes:

- Tracking ID (unique identifier)
- Request ID (foreign key)
- Payment due date
- Payment amount
- Payment status

E-R Diagram (First Version)

